

International Science Olympiad (ISO)	International Maths Olympiad (IMO)
English International Olympiad (EIO)	General Knowledge International Olympiad (GKIO)
International Computer Olympiad (ICO)	International Drawing Olympiad (IDO)
National Essay Olympiad (NESO)	National Social Studies Olympiad (NSSO)
National Hindi Olympiad (NHO)	National Logical Reasoning Olympiad (NLRO)
Abacus Olympiad (AO)	Astronomy Space Olympiad (ASO)

Total Questions : 50

Time : 65 min



PATTERN & MARKING SCHEME

Section	Subjective	HOT'S (High Order Thinking Section)
No. of Questions	45	5
Marks per Ques.	1	1

SYLLABUS

Section - 1 : The Sun, The Eight Planets and Their Secrets, The Moon and Its Phases, Dwarf Planets and Small Space Bodies, Day, Night, and Earth's Rotation, The Seasons and Earth's Journey, Our Protection: Earth's Atmosphere and Gravity, Stars, Constellations, and the Milky Way, Famous Astronauts and Moon Missions, Space Tools and Cosmic Eclipse

Section - 2 : High Order Thinking Section - Syllabus as per Section 1

Astronomy Space

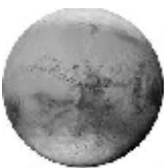
01. Light from the Sun takes approximately how long to reach Earth?



- a. 8 seconds
- b. 8 minutes
- c. 8 hours
- d. 8 days

02. Fill in the blank:

Even though Mercury is closest to the Sun, _____ is the hottest planet in the solar system due to its thick atmosphere trapping heat.



a. Mars



b. Jupiter



c. Saturn



d. Venus

03. When the visible part of the Moon is getting bigger each night, what do we call this phase?



- a. Waning
- b. Waxing
- c. Full Moon
- d. New Moon

04. Unscramble the given options and choose the correct answer:

A "dirty snowball" made of ice, dust, and gas that develops a long tail when it gets close to the Sun is called:

- a. ROETME
- b. DOIERTSA
- c. TMOCE
- d. STALETILE

05. What causes the cycle of day and night on Earth?



- a. The Sun is moving around the Earth.
- b. The Earth is orbiting the Sun.
- c. The Earth is spinning on its axis.
- d. The Moon blocking the Sun.

06. Which layer of the atmosphere protects Earth by burning up most meteors before they hit the ground?



- a. Troposphere
- b. Stratosphere
- c. Mesosphere
- d. Exosphere

07. Which star is also known as the "North Star" because it appears to stay fixed in the sky above the North Pole?

- a. Sirius
- b. Polaris
- c. Proxima Centauri
- d. Betelgeuse

08. What are the two main reasons why Earth has different seasons?

- a. Earth's rotation and the Moon's gravity.
- b. Earth's distance from the Sun and the speed of its orbit.
- c. Earth's tilted axis and its revolution around the Sun.
- d. Clouds and ocean currents.

High Order Thinking Section

09. Neil Armstrong and Buzz Aldrin were the first to land on the Moon, but they couldn't have returned to Earth without the third member of the Apollo 11 mission. Who was this astronaut, and what was his vital role?



- a. **Michael Collins**, who piloted the Command Module in lunar orbit.
- b. **Yuri Gagarin**, who provided radio support from Earth.
- c. **Rakesh Sharma**, who calculated the re-entry path.
- d. **Alan Shepard**, who piloted the backup landing craft.

10. **Assertion (A):** Space telescopes, like the Hubble Space Telescope, provide much clearer images of distant galaxies than telescopes located on the ground.

Reason (R): Earth's atmosphere contains dust, clouds, and gases that blur and distort the light coming from space.

- a. Both (A) and (R) are true, and (R) is the correct explanation of (A).
- b. Both (A) and (R) are true, but (R) is not the correct explanation of (A).
- c. (A) is true, but (R) is false.
- d. (A) is false, but (R) is true.